

In the Claims

Please amend claims as indicated in the following claim listing without prejudice and with a full reservation of rights to pursue such cancelled claims in this application, a continuation application, and/or another application.

1. (CURRENTLY AMENDED) A method comprising:

(a) aggregating at least a part of one or more mote-addressed content indexes from a first set of motes, administered by a first network administrator, and owned or controlled by a first business entity to form a first aggregated mote-addressed content index, said aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprising:

transferring a multi-mote index creation agent, which aggregates at least a part of one or more mote-addressed content indexes received from a first mote of the first set of motes, to a second mote of the first set of motes, the transferred multi-mote index creation agent including instructions 1) for installation of the agent on the second mote, and 2) for receiving at least a part of one or more mote-addressed content indexes at the second mote; and

(b) ~~transferring exposing~~ at least a part of the first aggregated mote-addressed content index to an aggregator of (i) a first-set content index from the first set of motes administered by the first network administrator and owned or controlled by the first business entity and (ii) a second-set content index from a second set of motes administered by a second network administrator and owned or controlled by a second business entity.

2. (PREVIOUSLY PRESENTED) The method of Claim 1, wherein said (a) aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

receiving at least a part of one or more mote-addressed indexes of the first set of motes.

3. (PREVIOUSLY PRESENTED) The method of Claim 1, wherein said (a) aggregating at least a part of one or more mote-addressed content indexes from a first set

of motes administered by the first network administrator owned or controlled by the first business entity to form a first aggregated mote-addressed content index further comprises:

aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes.

4. (PREVIOUSLY PRESENTED) The method of Claim 3, wherein said aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes.

5. (PREVIOUSLY PRESENTED) The method of Claim 3, wherein said aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from a multi-mote registry.

6. (PREVIOUSLY PRESENTED) The method of Claim 3, wherein said aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities

associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a pre-loaded listing of motes appropriate to at least one of the one or more multi-mote content indexes.

7. (PREVIOUSLY PRESENTED) The method of Claim 3, wherein said aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes further comprises:

obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from one or more motes to be included in the listing.

8. (PREVIOUSLY PRESENTED) The method of Claim 3, wherein said aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes further comprises:

receiving at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a reporting entity at a mote of the first set of motes.

9. (PREVIOUSLY PRESENTED) The method of Claim 3, wherein said aggregating, at least a part of one or more mote-addressed content indexes from the first set of motes, the content indexes comprising information indicating a first type of sensing or control capabilities

associated with the first set of motes and a second type of sensing or control capabilities associated with the first set of motes; and

creating one or more multi-mote content indexes of the first set of motes further comprises:

receiving at least a part of at least one of a mote-addressed routing index from a reporting entity at a mote of the first set of motes.

10. (PREVIOUSLY PRESENTED) The method of Claim 1, wherein said (a) aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

receiving from the first set of motes at least a part of one or more content indexes of the first set of motes.

11. (PREVIOUSLY PRESENTED) The method of Claim 10, wherein said receiving from the first set of motes at least a part of one or more content indexes of the first set of motes further comprises:

receiving, at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a multi-mote reporting entity at a mote of the first set of motes.

12. (PREVIOUSLY PRESENTED) The method of Claim 10, wherein said receiving from the first set of motes at least a part of one or more content indexes of the first set of motes further comprises:

receiving at least a part of a mote-addressed routing index and a mote-addressed spatial index from a multi-mote reporting entity at a mote of the first set of motes.

13. (PREVIOUSLY PRESENTED) The method of Claim 1, wherein said (a) aggregating at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

creating an aggregate of at least a part of the one or more content indexes from the first set of motes, wherein the one or more content indexes from the first set of motes include:

identifiers of devices available at a mote of the first set of motes, and

information indicating sensing and control capabilities associated with the devices.

14. (PREVIOUSLY PRESENTED) The method of Claim 13, wherein said creating an aggregate of at least a part of the one or more content indexes from the first set of motes further comprises:

aggregating at least a part of at least one of a mote-addressed sensing index, a mote-addressed control index, or a mote-addressed routing index of a content index of the first set of motes.

15. (PREVIOUSLY PRESENTED) The method of Claim 13, wherein said creating an aggregate of at least a part of the one or more content indexes from the first set of motes further comprises:

aggregating at least a part of a mote-addressed routing of a multi-mote content index.

16. (Canceled)

17. (CURRENTLY AMENDED) A mote comprising:

an agent to aggregate on ~~the~~a mote in a first set of motes at least a part of one or more mote-addressed content indexes corresponding to a first type of content from the first set of motes administered by a first network administrator and owned or controlled by a first business entity, to aggregate on the mote at least a part of one or more first mote-addressed content indexes corresponding to a second type of content from the first set of motes to form a first aggregated mote-address content index, and to transfer ~~expose-expose~~ at least a part of the first aggregated mote-address content index to an aggregator that aggregates (i) a first-set content index from the first set of motes administered by the first network administrator and owned or controlled by the first business entity and (ii) a second-set content index from a second set of motes administered by a second network administrator and owned or controlled by a second business entity, ~~wherein the mote comprises-comprises-comprising~~ a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality; and

means for transferring the agent to aggregate at least a part of one or more mote-addressed content indexes from the first set of motes to another mote, and said agent further comprising:

means for installing the transferred multi-mote index creation agent on the another mote; and

means for receiving, with the installed multi-mote index creation agent, at least a part of one or more mote-addressed content indexes of a second mote of the first set of motes.

18. (CURRENTLY AMENDED) The mote of Claim 17 wherein the agent further comprising~~comprising~~comprises:

means for receiving with the device at least a part of one or more mote-addressed indexes of the first set of motes.

19. (PREVIOUSLY PRESENTED) The mote of Claim 17, wherein said agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes is disposed on the device, and wherein the content indexes comprises information indicating sensing and control capabilities associated with the first set of motes, and wherein the agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

means for creating, with the device, multi-mote content indexes of the first set of motes.

20. (PREVIOUSLY PRESENTED) The mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes.

21. (PREVIOUSLY PRESENTED) The mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from a multi-mote registry.

22. (PREVIOUSLY PRESENTED) The mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a pre-loaded listing of motes appropriate to at least one of the one or more multi-mote content indexes.

23. (PREVIOUSLY PRESENTED) The mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for obtaining a listing of motes appropriate to at least one of the one or more multi-mote content indexes from one or more motes to be included in the listing.

24. (PREVIOUSLY PRESENTED) The mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for receiving with the device at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a reporting entity at a mote of the first set of motes.

25. (PREVIOUSLY PRESENTED) The mote of Claim 19, wherein said means for creating, with the device, multi-mote content indexes of the first set of motes further comprises:

means for receiving with the device at least a part of at least one of a mote-addressed routing/spatial index from a reporting entity at a mote of the first set of motes.

26. (PREVIOUSLY PRESENTED) The mote of Claim 17, comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, and wherein said agent to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes further comprises:

means for receiving with the device at least a part of one or more multi-mote content indexes of the first set of motes.

27. (PREVIOUSLY PRESENTED) The mote of Claim 26, wherein said means for receiving with the device at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for receiving at least a part of at least one of a mote-addressed sensing index or a mote-addressed control index from a multi-mote reporting entity at a mote of the first set of motes.

28. (PREVIOUSLY PRESENTED) The mote of Claim 26, wherein said means for receiving with the device at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for receiving with the device at least a part of a mote-addressed routing/spatial index from a reporting entity at a mote of the first set of motes.

29. (CURRENTLY AMENDED) The mote of Claim 17, comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, and wherein said ~~aggregating device to aggregate at least a part of one or more mote-addressed content indexes from a first set of motes~~aggregating device to aggregate at least a part of one or more mote-addressed content indexes from a first set of motesagent further comprises:

means for creating with the device an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes, said multi-mote content indexes of the first set of motes including network addresses of devices coupled with the first set of motes.

30. (PREVIOUSLY PRESENTED) The mote of Claim 29, wherein said means for creating with the device an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for aggregating at least a part of at least two of a mote-addressed sensing index, a mote-addressed control index, or a mote-addressed routing/spatial index of a multi-mote content index.

31. (PREVIOUSLY PRESENTED) The mote of Claim 29, wherein said means for creating with the device an aggregate of at least a part of one or more multi-mote content indexes of the first set of motes further comprises:

means for aggregating at least a part of a mote-addressed routing/spatial index of a multi-mote content index.

32. (Cancelled)

33. (CURRENTLY AMENDED) A system comprising:

a computer system to aggregate at least a part of (a) one or more mote-addressed content indexes corresponding to content of a first type from a first set of motes administered by a first network administrator and owned by a first business entity, said one or more mote-addressed content indexes from the first set of motes including metadata indicating that the first set of motes are owned by the first business entity, and to aggregate at least a part of one or more mote-addressed content indexes corresponding to content of a second type from a second set of motes administered by a second network administrator and owned by a second business entity, said one or more mote-addressed content indexes from the second set of motes including metadata indicating that the second set of motes are owned by the second business entity, the motes in the first set of motes and the second set of motes comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality, said computer system to aggregate data from a first and second reporting entity, said first reporting entity being operable to report an aggregation of at least a part of one or more mote-addressed content indexes from the first set of motes, and said second reporting entity being operable to report an aggregation of at least a part of one or more mote-addressed content indexes from the second set of motes.

34. (CURRENTLY AMENDED) A system comprising:

a first mote of a plurality of motes, the first mote comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, and a sensing functionality; and

a first multi-mote index creation agent resident in the first mote of a first set of motes of the plurality of motes administered by a first network administrator and owned or controlled by a first business entity, said first multi-mote index creation agent configured to (a) aggregate at least a part of a first mote-addressed content index including an index of content of the first set of motes of the plurality of motes to form a first aggregated mote-addressed content index, the first aggregated mote-addressed content index including first metadata indicating that the first set of motes are owned or controlled by the first business entity, and (b) ~~expose-transfer~~ at least a part of the first aggregated mote-addressed content index to an aggregator of (i) a first-set content index from the first set of motes administered by the first network administrator and owned or controlled by the first business entity, said one or more mote-addressed content indexes from the first set of motes including the first metadata, and (ii) a second-set content index from a second set of motes administered by a second network administrator owned or controlled by a second business entity, said one or more mote-addressed content indexes from the second set of motes including second metadata indicating that the second set of motes are owned or controlled by the second business entity.

35. (CURRENTLY AMENDED) The system of Claim 34, wherein the aggregator further ~~comprising~~comprises:

a computing device configured to aggregate at least a part of the ~~indexed~~ mote-addressed content indexes from the first set of motes and the second set of motes.

36. (PREVIOUSLY PRESENTED) The system of Claim 34, wherein said first mote further comprises:

a processor configured to execute the at least one multi-mote index creation agent to obtain at least one of a sensing function or a control function.

37. (PREVIOUSLY PRESENTED) The system of Claim 34, wherein said at least one first mote comprises:

a processor, a memory, and a communications device formed from a substrate.

38. (CURRENTLY AMENDED) A system comprising:

a first mote comprising a first content type and administered by a first network administrator, the first mote comprising a device formed in a substrate having at least two of a semi-autonomous computing functionality, a communication functionality, or a sensing functionality; and

at least one multi-mote registry resident in said first mote, said at least one multi-mote registry having one or more indicators of a second mote's content to be indexed, the one or more indicators of a second mote's content to be indexed comprise 1) a list of sensing capabilities or control capabilities of the second mote, and 2) associated device-identifiers associated with one or more devices present or available at the second mote, the one or more indicators being received from the second mote ~~and excluding the second mote's content~~, said second mote's content to be indexed comprising a second content type.

39. (CANCELED)